



Product Data Sheet

Product Description

Product Name:	ProFlush WBD
Chemical Name:	Cementing pre-flush
Company Name:	ARC Products Inc
Address:	4010 La Reunion Parkway Suite 160 Dallas, TX 75212
Telephone Number:	(214) 638-2468

Product Applications

ProFlush WBD is a pre-flush that was designed to simultaneously wet formation surfaces and help remove water based drilling muds as preparation for the next step of the cementing process.

ProFlush WBD is pumped ahead of the cement to separate it from water based drilling muds. When pumped ahead of the cement ProFlush WBD will leave downhole surfaces water wet and remove drilling mud residue, which can result in an improvement in quality of the bond between cement, casing and formation. Since ProFlush WBD is a Newtonian fluid it can be placed into turbulent flow in the annulus, which also aids in effective mud removal.

ProFlush WBD should be compatible with all water based muds and cement slurries but if uncertain test for compatibility before using the product. ProFlush WBD should be compatible with nonionic and anionic additives.

Typical Properties

Appearance	Clear dark brown liquid
pH, (neat)	6.5 - 9
Density	8.96lbs/gal
Flash point (°F)	>200
Pour point (°F)	25 - 27

Storage and Handling

Storage Keep out of very cold conditions. If the product freezes warm to the pour point before using. Once warmed to the pour point mix to ensure homogeneity.

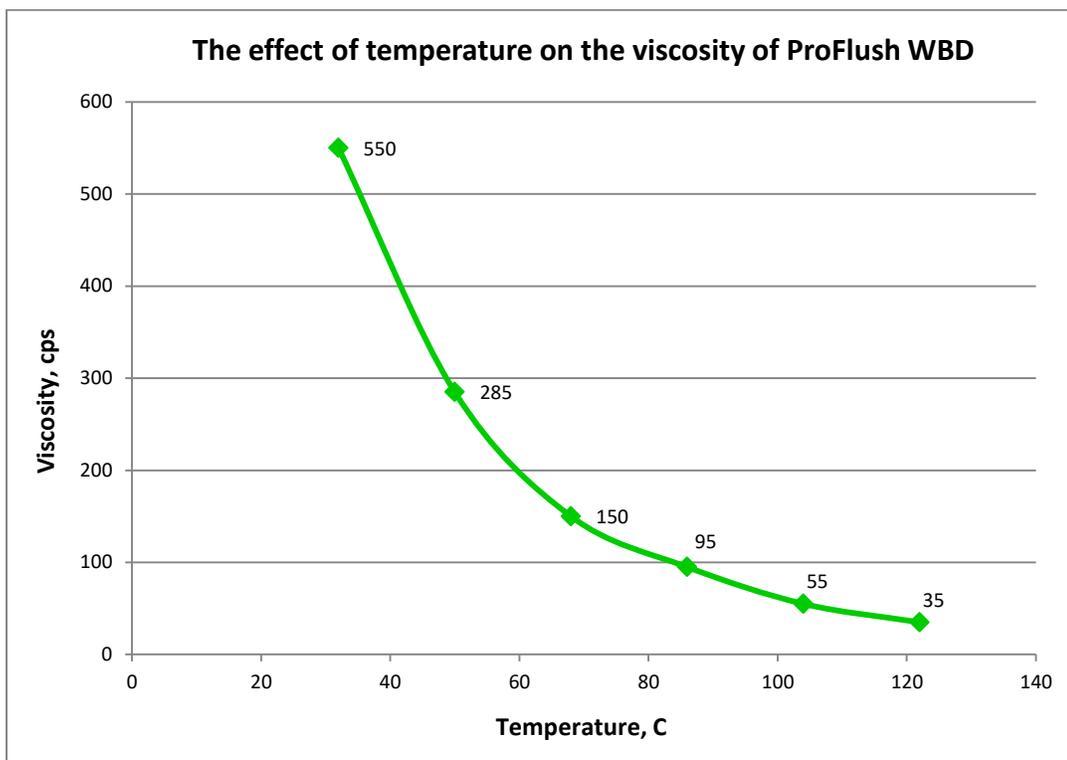
Handling Use appropriate personal protective equipment when working with ProFlush WBD. Do not get into eyes, on skin, ingest or inhale mist generated during the use of the product. Try to prevent the generation of mist

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during use of the product. Make sure that proper ventilation and eye washes/safety showers are present in the immediate work area. Do not flush product into the sewer system.



Product Performance

Using a 10ppg WBM a series of rinse off and compatibility tests were conducted using ProFlush WBD:

ProFlush WBD, %w/w	Viscosity @ 180°F, cps	Rinse off @ 180°F, %	ProFlush WBD, gal per barrel
2.2	11	62	1.00
1.1	4.5	64	0.50
0.5	4.2	70	0.23
0.25	4.5	74	0.12

Compatibility and rinse off testing was conducted at a 1:1 ratio of mud to pre-flush solution.

Rinse off performance of ProFlush WBD was measured at two temperatures to determine the effect on performance:

ProFlush WBD, %w/w	ProFlush WBD, gal per barrel	Rinse off @ 75°F, %	Rinse off @ 180°F, %
2.2	1.00	66	62
1.1	0.50	73	64
0.5	0.23	70	70
0.25	0.12	72	74

There was no difference in the rinse off between room temperature (75°F) and 180°F

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